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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/659,663	09/10/2003	Danny T. Williams	659.001	3754
29166	7590	08/01/2005		EXAMINER
DOMINGUE & WADDELL, PLC				GAY, JENNIFER HAWKINS
P.O. Box 3405 LAFAYETTE, LA 70502			ART UNIT	PAPER NUMBER
			3672	

DATE MAILED: 08/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/659,663	WILLIAMS, DANNY T.	
	Examiner	Art Unit	
	Jennifer H. Gay	3672	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 20 June 2005.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-25 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 1-25 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on 20 June 2005 is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date: _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date: _____ | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION***Drawings***

1. The drawings are objected to because the reference character "56" in Figure 4 does not include a lead line nor did the response filed on 20 June 2005 include an explanation as to why it shouldn't. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

3. Claim 1, 2, 9, 17, 19, and 23 are rejected under 35 U.S.C. 102(b) as being anticipated by Worthington (US 1,693,101).

Regarding claim 1: Worthington discloses an apparatus for use in a coal bed seam that includes the following features:

- A first tubing **B** disposed in a wellbore so that a wellbore annulus is formed therein (Figure 1). The first tubing includes a suction tube **E** at a first end where the suction tube extends into the inner portion of the first tubing. The suction tube contains an inner and outer portion.

- A second tubing **C** concentrically disposed within the first tubing so that a micro annulus **19** is formed therein for injection of a power fluid. The first end of the second tubing is concentrically positioned about the outer portion of the suction tube to form an annular passage **25a** relative to an inner portion of the second tubing and the outer portion of the suction tube. The inner portion of the suction tube is in communication with the wellbore annulus.

Regarding claim 2: The apparatus includes a stabilizer means **90** disposed about the second tubing.

Regarding claim 9: Worthington discloses an apparatus for use in a coal bed seam that includes the following features:

- A first tubing **B** disposed in a wellbore so that a wellbore annulus is formed therein (Figure 1). The first tubing includes a distal end and a proximal end.
- An annular nozzle **E** operatively attached to the distal end of the first tubing. The nozzle includes an annular adapter **10** and a suction tube **11** that extends from the adapter into an inner portion of the first tubing. The suction tube contains an inner and outer portion.
- A second tubing **C** concentrically disposed within the first tubing so that a micro annulus **19** is formed therein for the injection of a power fluid. The first end of the second tubing is concentrically positioned about the outer portion of the suction tube so that an annular passage **25a** is formed within an inner portion of the second tubular. The inner portion of the suction tube is in communication with the wellbore annulus.

Regarding claim 17: Worthington discloses a method for drawing down a fluid column in a wellbore using the above apparatus. (While Worthington does not disclose that the method and apparatus are used in a natural gas wellbore, both the features and disclosed steps are the same as those recited in the claims. Without a teaching in the reference that eliminates its use in a natural gas well, the method and apparatus of

Worthington are capable of being used as such.) The method involves the following steps:

- Providing the apparatus in the wellbore.
- Injecting a medium into the micro annulus.
- Channeling the medium through the nozzle thus causing an area of low pressure within the suction tube.
- Drawing down the fluid within the wellbore annulus into the suction tube.
- Exiting fluid from the suction tube into the inner portion of the second tubing.
- Mixing the fluid with the medium in the inner portion of the second tubing.
- Discharging the fluid and medium to the surface.

Regarding claim 19: The method further involves:

- Drawing down the level of the fluid within the wellbore annulus.
- Flowing natural gas from the deposit once the fluid level reaches a predetermined level.
- Producing the gas to the surface.

Regarding claim 23: Worthington discloses an apparatus that includes the following features:

- A first tubing **B** disposed in a wellbore so that a wellbore annulus is formed therein (Figure 1). The first tubing includes an annular nozzle **E** at a first end where the annular nozzle extends into the inner portion of the first tubing. The nozzle includes a cylindrical suction tube **11** that has an inner portion that is in communication with the wellbore annulus (Figures 2 and 3).
- A second tubing **C** concentrically disposed within the first tubing so that a micro annulus **19** is formed therein for the injection of a power fluid. The first end of the second tubing is concentrically positioned about the suction tube so that an annular flow area **25a** is formed

between an outer portion of the suction tube and an inner portion of the second tubing. The annular flow area is in communication with the wellbore annulus.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 3-6, 10-14, 18, 20, 24, and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Worthington in view of Sudol (US 5,033,545).

Regarding claims 3, 10, 18, 20, 24: Worthington discloses all of the limitations of the above claims except for the apparatus including a jet means for delivering an injected medium from the micro annulus into the wellbore annulus.

Sudol discloses an apparatus similar to that of Worthington. Sudol further teaches a jet means **19** for delivering an injected medium from a micro annulus **1** into the wellbore annulus.

It would have been considered obvious to one of ordinary skill in the art, at the time the invention was made, to have modified the apparatus of Worthington to include the jet means of Sudol in order to have provided a means for keeping solids suspended in the wellbore fluid until they are pumped out (3:30-38).

Regarding claims 4, 12: Worthington discloses a means for injecting the injection medium into the micro annulus **D**.

Regarding claims 5, 11, 25: The apparatus of Worthington includes an inner tubing restriction sleeve **27** disposed within the second tubing member. The suction tubing device extends into the restriction sleeve.

Regarding claims 6, 14: The injection medium is a fluid.

Regarding claim 11: The apparatus of Worthington includes a stabilizer means **90** disposed in the second tubular.

Regarding claim 13: Worthington and Sudol discloses all of the limitations of the above claims except for the suction tube being threadedly attached to the annular adaptor. Rather the suction tube and annular adaptor of Worthington are formed as integral parts. However, it would have been considered obvious to one of ordinary skill in the art, at the time the invention was made, to have formed the suction tube and annular adaptor of Worthington as separate features threaded together, since it has been held that constructing a formerly integral structure in various elements involves only routine skill in the art. *Nerwin v. Erlichman*, 168 USPQ 177, 179. Further, forming the two elements as separate pieces that were threaded together would have allowed for easier replacement of worn parts as the pieces could be easily separated from each other and only the damaged part replaced.

Regarding claim 20: The method of Worthington further involves the following steps:

- Drawing down the level of fluid within the wellbore annulus.
- Terminating the injection of the medium into the micro annulus once the fluid level has reached a predetermined level.
- Flowing oil from the formation into the wellbore.
- Producing the oil to the surface.

6. Claims 7, 8, 15, 16, 21, and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Worthington in view of Sudol as applied to claims 1, 3, 10, and 20 above, and further in view of Montgomery et al. (US 5,435,628).

Worthington and Sudol discloses all of the limitations of the above claims except for the wellbore extending past the coal bed so that a sump is formed and where the apparatus is placed in the sump below the coal bed.

Montgomery et al. teaches that it is well known to place jet or venturi pumps into a sump below a coal bed when removing fluid from the coal bed (1:34-47).

It would have been considered obvious to one of ordinary skill in the art, at the time the invention was made, to have modified the method and apparatus of Worthington in view of Sudol such that the apparatus was placed in a sump formed in the wellbore

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below the coal bed as taught by Montgomery et al. in order to have placed the apparatus below the point where fluid was entering the wellbore thus aiding the production in the fluid from the wellbore.

Response to Arguments

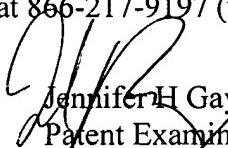
7. In view of applicant's amendment and substitute specification, the second objection to the drawings as well as the objection to the specification and claim 23 has been withdrawn.
8. Applicant's arguments with respect to claims 1-25 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jennifer H. Gay whose telephone number is (571) 272-7029. The examiner can normally be reached on Monday-Thursday, 6:30-4:00 and Friday, 6:30-1:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Bagnell can be reached on (571) 272-6999. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Jennifer H. Gay
Patent Examiner
Art Unit 3672

JHG
July 26, 2005
